

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-9 (Canceled).

Claim 10 (New): An elevator system having no machineroom comprising:

a cage guided by a pair of right and left cage-side guide rails to vertically move in an elevator shaft;

a traction sheave disposed within the top of the elevator shaft behind and near one of the pair of right and left cage-side guide rails, and driven in rotation about a rotational axis extending in a forward and rearward direction;

a driving apparatus, disposed behind the traction sheave, for driving the traction sheave in rotation;

a cage frame for supporting the cage having an upper beam horizontally extending in a right and left direction above the upper surface of the cage;

a cage-side sheave supporting beam for supporting a pair of right and left cage-side sheaves at both ends thereof, respectively, said cage-side sheave supporting beam being inserted in a vertical gap between the upper beam and the upper surface of the cage in a horizontal manner, and connected to the center portion of the upper beam with the center portion thereof; and

a counterweight guided by a pair of front and rear counterweight-side guide rails to vertically move in the elevator shaft below the driving apparatus;

a hoist rope composed of a plurality of ropes wound around the traction sheave, having a first part suspending the cage through the pair of right and left cage-side sheaves, and having a second part suspending the counterweight, wherein

said pair of right and left cage-side sheaves are disposed to rotate around rotational axes thereof extending parallel to or in a close relation to the rotational axis of the traction sheave, respectively.

Claim 11 (New): An elevator system having no machineroom according to claim 10, wherein the cage-side guide rails are extended to the top of the elevator shaft.

Claim 12 (New): An elevator system having no machineroom according to claim 10, wherein the hoist rope is composed of a plurality of ropes each having a diameter of from 4 to 6 mm.

Claim 13 (New): An elevator system having no machineroom according to claim 10, wherein a rotational axis of the traction sheave and rotational axes of the pair of right and left cage-side sheaves are extended with respect to each other at an angle of from 0 to 45 degrees when viewed vertically from above.

Claim 14 (New): An elevator system having no machineroom according to claim 10, wherein the pair of right and left cage-side sheaves are disposed near the right and left sidewalls of the cage, respectively.

Claim 15 (New): An elevator system having no machineroom according to claim 10, wherein the pair of right and left cage-side sheaves are disposed within a vertical projection of the cage when viewed vertically from above.

Claim 16 (New): An elevator system having no machineroom according to claim 10, wherein the pair of right and left cage-side sheaves are disposed symmetrically with respect to the center of gravity of the cage when viewed vertically from above.

Claim 17 (New): An elevator system having no machineroom according to claim 10, wherein the driving apparatus is disposed such that at least a part thereof overlaps the cage when viewed vertically from above.

Claim 18 (New): An elevator system having no machineroom according to claim 10, wherein the traction sheave is disposed such that at least a part thereof overlaps the cage when viewed vertically from above.

Claim 19 (New): An elevator system having no machineroom according to claim 10, wherein the traction sheave is disposed below the top of the one of the pair of right and left cage-side guide rails.

Claim 20 (New): An elevator system having no machineroom according to claim 10, wherein said driving apparatus is configured similar to a cylinder disposed concentric with the traction sheave between the traction sheave and the rear inner wall of the elevator shaft.

Claim 21 (New): An elevator system having no machineroom according to claim 20, wherein said cylinder has a diameter almost equal to that of the traction sheave.

Claim 22 (New): An elevator system having no machineroom according to claim 10, wherein said driving apparatus is configured similar to a cylinder having a small diameter, long axis, and a rear end disposed in the vicinity of the rear wall of the elevator shaft.

Claim 23 (New): An elevator system having no machineroom according to claim 10, wherein said driving apparatus is supported by the pair of front and rear counterweight-side guide rails.

Claim 24 (New): An elevator system having no machineroom according to claim 10, wherein said cage-side sheave supporting beam is connected to the upper frame in an inclined manner when viewed vertically from above.

Claim 25 (New): An elevator system having no machineroom according to claim 24, wherein the center portion of the upper surface of the cage-side sheave is connected to the center portion of the lower surface of the upper frame.

Claim 26 (New): An elevator system having no machineroom according to claim 24, wherein said pair of right and left cage-side sheaves are disposed in the vicinity of the side wall of the upper beam, respectively.

Claim 27 (New): An elevator system having no machineroom according to claim 10, wherein one of the right and left cage-side sheaves is disposed in the vicinity of the traction sheave when viewed vertically from above.

Claim 28 (New): An elevator system having no machineroom according to claim 10, wherein said cage-side sheave supporting beam is configured with a pair of beam members extending parallel to each other, and the pair of right and left cage-side sheaves are disposed in a space between the pair of beam members.

Claim 29 (New): An elevator system having no machineroom according to claim 10, further comprising a supporting means for rotatably supporting the pair of right and left cage-side sheaves on the upper surface of the cage-side sheave supporting beam such that said cage-side sheave supporting beam is disposed below the rotational axes of the cage-side sheaves.